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## NOTICE OF ALLOWANCE AND FEE(S) DUE

26645

7590

01/05/2011

The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092-2298

EXAMINER

VASISTH, VISHAL V

ART UNIT PAPER NUMBER

DATE MAILED: 01/05/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,248	10/13/2004	William K. S. Cleveland	3238-01	8874

TITLE OF INVENTION: METHODS AND LUBRICANT AND FUEL COMPOSITIONS FOR TWO-STROKE ENGINE CONTAINING POWER

VALVES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/05/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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The Lubrizol C 29400 Lakeland Wickliffe, OH 4	Blvd.		I her State addr trans	eby certify that this is Postal Service wit essed to the Mail S mitted to the USPTO	Fee(s) Transmittal is bein h sufficient postage for fin Stop ISSUE FEE address O (571) 273-2885, on the	g deposited with the United rst class mail in an envelope above, or being facsimile date indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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	NO	\$1510	\$300	\$0	\$1810	04/05/2011
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EXAM		ART UNIT	CLASS-SUBCLASS			
VASISTH, V		1771	123-00100A  2. For printing on the particle of			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ess an assignee is identi n in 37 CFR 3.11. Comp	' Indication form ed. Use of a Customer A TO BE PRINTED ON '	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attornished, no name will be THE PATENT (print or type data will appear on the patent at the patent as substitute for filing and (B) RESIDENCE: (CITY)	ely, e firm (having as a n gent) and the names neys or agents. If no printed.  e) ttent. If an assignee tssignment.	nember a of up to o name is 3	document has been filed for
4a. The following fee(s) a ☐ Issue Fee ☐ Publication Fee (N		4toermitted)	b. Payment of Fee(s): ( <b>Plea</b> A check is enclosed.  Payment by credit care  The Director is hereby	se first reapply any  1. Form PTO-2038 i authorized to charge	previously paid issue feets s attached. e the required fee(s), any d	eficiency, or credit any
5 Change in Entity Stat	tus (from status indicated	Labovo)	overpayment, to Depor	sit Account Number	(enclose	an extra copy of this form).
	s SMALL ENTITY statu		☐ b. Applicant is no long	er claiming SMALL	ENTITY status. See 37 C	CFR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a registo	ered attorney or agent; or t	he assignee or other party in
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This collection of informan application. Confident submitting the completed his form and/or suggesti	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this but	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den. should be sent to th	on is required to obtain or r 1.14. This collection is est depending upon the indiv the Chief Information Office	etain a benefit by the mated to take 12 mi dual case. Any com r. U.S. Patent and Tr	public which is to file (ar nutes to complete, includi ments on the amount of t rademark Office, U.S. Der	nd by the USPTO to process) ng gathering, preparing, and ime you require to complete partment of Commerce, P.O.

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The Lubrizol Corporation			VASISTH,	VISHAL V
29400 Lakeland B	slvd.		ART UNIT	PAPER NUMBER
Wickliffe, OH 440	)92-2298		1771	
			DATE MAILED: 01/05/201	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 625 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 625 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/511,248	CLEVELAND ET AL.				
Notice of Allowability	Examiner	Art Unit				
	VISHAL VASISTH	1771				
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is and MPEP 1308.	n this application. If not included nunication will be mailed in due course. <b>THIS</b>	е			
2. X The allowed claim(s) is/are 1,5,6,8,10 and 12-14.						
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:         <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ol>	been received. been received in Applicati	on No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.					
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2 to Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☒ Examiner's 8. ☒ Examiner's 9. ☐ Other	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allowance				
	/Vishal Vasisth	/ 12/28/2010				

Application/Control Number: 10/511,248 Page 2

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### **DETAILED ACTION**

1. Applicants' response filed on 12/162010 amended independent claim 1.

Applicants' amendments in light of their arguments including the Declaration under 37

CFR 1.132 signed by Laimute R. Svarcas filed 9/28/2010 are persuasive and, therefore,

the 35 USC 103 rejection over Blythe in view of Patel further in view of Teacherson from

the previous office action is withdrawn. For the reasons stated below, claims 1, 5-6, 8,

10 and 12-14 are in allowable condition.

### **Examiners Amendment**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

A) At the beginning of line 1 on page 1 of the specification:

Please, add the phrase, "This application is a 371 of PCT/US03/12090, filed

04/17/2003."

# Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

As evidenced by the prior art references of record, it is well known in the art to lubricate a two-stroke engine containing a power valve with a fuel:lubricant mixture wherein the lubricant comprises a base oil and additives including a reaction product between a fatty hydrocarbyl-substituted monocarboxylic acylating agent and a polyamine, a Mannich dispersant, and a friction modifier.

However, two-stroke engines require high undercrown ratings as well as high power valve ratings with limited treat rate of additive components. Applicants' claimed composition has a very narrow concentration of all additive components and from the example formulations it is evident that only the specific additives in their narrow concentrations lead to unexpected results wherein the undercrown rating is high, meanwhile maintaining excellent power valve ratings. The prior art lubricants show ranges that overlap those of the instant claims but the art does not show the synergy in terms of deposit control for the compounds of instant claim 1.

The applicants' instant invention does demonstrate unexpected results and the claims are commensurate in scope with the data provided. Unexpected results are demonstrated in terms of reduction of undercrown rating and power valve rating.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VISHAL VASISTH whose telephone number is (571)270-3716. The examiner can normally be reached on M-R 8:30a-5:30p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571)272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

VVV

/Glenn A Caldarola/ Supervisory Patent Examiner, Art Unit 1771